

THE POTENTIAL OF EXTRACT DAUN AFRIKA (*Vernonia amygdalina Delile*) FOR ANTIBACTERIAL ACTIVITY TO BACTERIAL ISOLATES *Escherichia coli* ATCC 25922

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ABSTRACT

The aim of this study was to determine the potential of the methanol extract of daun Afrika (*Vernonia amygdalina Delile*) as an antibacterial against *Escherichia coli* ATCC 25922. Isolates *E. coli* was cultured on Muller Hinton Agar (MHA). The antibacterial test using a hole diffusion method. The negative control (K-) was a hole with contain only the extract dilution CMC Na 0,5%. Positive control (K+) was a hole filled with eugenol. Treatment (P1, P2, P3, P4) were given the methanol extract of daun Afrika (*Vernonia amygdalina Delile*) with concentration of 100%, 75%, 50% and 25% respectively. Research design using Completely Randomized Design (RAL), with six treatments and four repetitions. The data was analyzed by ANOVA, followed by Duncan test. The results of the analysis of inhibition zone showed, K+ has clear difference with all treatments of K-, P1, P2, P3, and P4. As well K- found not significant defferent with treatmets of P1, P2, P3 and P4. The results showed that each treatment did not produce an inhibitory zone so it was not significantly different with the negative control (CMC Na 0.5%).

Keywords: Antibacterial activity, Inhibition zone, *Vernonia amygdalina Delile*, *Escherichia coli*